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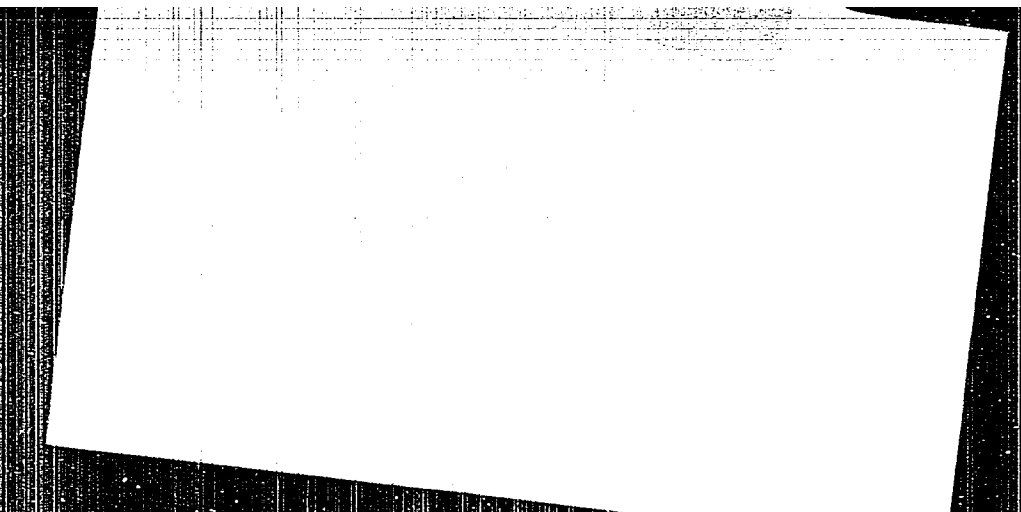
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*Electrolysis, Fused materials, Salts, Chlorides,
Dehydration, Fluorides.

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DESCRIPTORS: *Calcium alloys, *Magnesium alloys,
*Electrodeposition, Halides, Magnesium compounds,
Oxides, *Electrolysis, Chlorides, Fluorides, Potassium
compounds, Sodium compounds, Hydrogen compounds,
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1. Polarographic analysis
2. Electrodes--Materials
3. Oxidation-reduction
 reactions--Analysis
4. Electrochemistry
 I. Kato, J.
 II. Sakuma, M.
 III. ATS-95N49]
IV. Associated Technical
 Services, Inc.,
 East Orange, N. J.

159180

Office of Technical Services

Electrolytic Partial Hydrogenation of 2-butyne-1
4-diol. Part 2. Electrolytic Partial Hydrogenation
of 2-butyne-1,4-diol with the Use of a Ag-Cu
Cathode, by J. Kato.
JAPANESE, per, Danki Kagaku, Vol 25, 1957,
pp 331-337.
ATS-JB-246

Sci-Chem

On the Slade Potential of Passive Nickel,
by Go Okamoto, Tetsuo Takaishi, et al.

JAPANESE, per, Denki Kagaku, Vol XXVI,
1958, pp 615-619.

*FTD-TT-62-1781

Sci - Min/Met
Nov 62

Mizuno, S. and Toshima, S.
THE ELECTROLYSIS OF BRINE WATER WITH A
MERCURY JET CATHODE. [1963] [20p]
Order from SLA \$1.60 TT-64-14360

Trans. of Denki Kagaku (Japan) 1959, v. 27, p. 391-394.
(Abstract available)

DESCRIPTORS: *Electrochemistry, *Sea water,
*Sodium compounds, Chlorides, Impurities,
Electrolysis, *Cathodes (Electrolytic cells) *Mercury,
Liquid jets, Ultrasonic radiation.

Brine was electrolyzed using the mercury cathode in which mercury was ejected at high speed from a capillary to form a continuous stream. An abnormally high current density at the cathode could be easily obtained, and the current density was controlled largely by the mercury flow rate. Electrolysis of purified sodium chloride solution was performed, and it was found that electrolysis could be carried out at sufficiently high (Chemistry--Physical, TT, v. 11, no. 11) (over)

TT-64-14360

- I. Title: Jet cathodes
- I. Mizuno, S.
- II. Toshima, S.

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Electron Microscopic Studies of the Surface
Structure of Cadmium Hydroxide Electrodes, by
Shiro Yoshizawa, Zenichiro Takehara, et al.
JAPANESE, per, Denki Kagaku, Vol. 28, 1960,
pp 10-16. P911126566
AEC SC-T-66-0754

Sci/Electronics
Dec 66

314,590

Changes of Fine Structure of Cadmium Electrode
Surface by Various Discharge Conditions, by
Shiro Yoshizawa, Zenichiro Takehara.
JAPANESE, per, Denki Kagaku, Vol 28, No 2, 1960,
pp 53-58. P911126766
NEC SC-t-66-0751

Sci/electronics
Dec 66

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Maeda, Masao.
SEMICONDUCTOR ELECTRODE. [1961] [20]p.
18 refs.

Order from SLA \$1.60 62-10621

Trans. of Denki Kagaku (Japan) 1961, v. 29, p. 8-14.

DESCRIPTORS: *Semiconductors, *Electrodes,
Electrochemistry, Space charges, Reduction, Germanium,
Solid state physics.

This short paper explains the difference when semiconductor instead of metals are used for electrode.

(Physics--Solid State, TT, v. 7, no. 11)

62-10621

1. Maeda, M.

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Yokoyama, Tatsuo.

ON THE CHANGE OF THE ESCAPE OF CHLORINE
AFTER THE DISAPPEARANCE OF FREE HYDRO-
CHLORIC ACID IN THE CHLORATE CELL. Pt. 2 of
Studies on the Escape of Chlorine in the Sodium
Chlorate Cell. [1962] 9p. 2 refs.
Order from SLA \$1.10

62-18322

Trans. of Denki Kagaku (Japan) [1961] v. 29, p. 697-701.

DESCRIPTORS: Electrolytic cells, Chlorates, *Hydro-
chloric acid, *Chlorine, Sodium compounds,
Electrolysis.

The escape of chlorine is determined by the entire
amount of gas evolved from the bath and the pressures
of Cl_2 and HClO . During electrolysis, the Cl_2
pressure sometimes varies quite widely but the per-
centage of variation of the total amount of gas evolved is
small. Depending on the amount of hydrochloric acid
(Engineering--Chemical, TT, v. 9, no. 9) (over)

62-18322

I. Yokoyama, T.
II. Title: Studies ..

Office of Technical Services

Oxygen Electrodes for a High-Temperature Fuel
Cell, by T. Takahashi, A. Kozawa, et al.

JAPANESE, per, Denki Kagaku, Vol. XXIX, No 11,
1961, pp 762-765.

NASA TT F-8288

Sci

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US GOV'T ONLY

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Fuel Cells (Part II). Preoxidation of the Sintered
Nickel Electrode, by T. Takahashi, K. Ito.

JAPANESE, per, Denki Kagaku, Vol. XXIX, No 12,
1961, pp 867-872.

NASA TT F-8287

Sci
Apr 63
US GOV'T ONLY

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Semiconductive Films, by Z. Sakai,
JAPANESE, per, Denki Kagaku, Vol XXX, 1952,
pp 82-88.
ATS JS-71

Sci-Phys
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Ueda, S., Watanabe, A., and Tsuji, F.
THE ADSORPTION BEHAVIOR OF NONIONIC SURFACE-
ACTIVE AGENTS CONSIDERED FROM THE STAND-
POINT OF THE DIFFERENTIAL DOUBLE LAYER
CAPACITY. [1963] 10p.
Order from ATS \$16.00

ATS-88Q69J

Trans. of Denki Kagaku (Japan) 1962, v. 30, no. 8,
p. 582-586.

DESCRIPTORS: *Adsorption, *Surface-active
substances, *Electrical double layer, Electrochemistry.

(Chemical--Physical, TT, v. 10, no. 6)

- I. Ueda, S.
- II. Watanabe, A.
- III. Tsuji, F.
- IV. ATS-88Q69J
- V. Associated Technical
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Studies of Vertical Mercury Cell With
Cylindrical Cathode, by S. Sawada, et al.
JAPANESE, per, Denki Kagaku Vol XXXI,
1963, pp 776-781.
Chem Trans Sv No 2563

Sci-Chem
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I. Tachibashi

O. Yamamoto

The conductivity of solid electrolytes. Part 3: The
conductivity of Ag₃SI. 16 pp.
JAPANESE, per, Denki Kagaku, Vol 32, 1964, pp 610-615
NASA TT F 14,200

june 72

Phase Diagrams of the System Thorium Chloride-Alkali Chlorides and Thorium Chloride-Eutectic Chlorides, by Seichi Tezai, 9 pp.
JAPANESE, per, Denki Kagaku, Vol XXXII, 1964,
pp 167-170.
ABC-B-Tr-7

Sci-21/31 Chem
Aug 68

286,382

The Lift Action of Chlorine Bubbles in
Graphite Anode of a Horizontal Mercury
Cell, by K. Takata, H. Morishita. 10p.
JAPANESE, per, Denki Kagaku, Vol 32,
No 8, 1964, pp 586-589.
TC-1050

Sci-Chem
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Model Experiment on Specific Resistance of
Brine-Containing Bubbles, by Kazuo Takata,
Hiroshi Morishta.
JAPANESE, per, Denki Kagaku, Vol 32, 1964,
pp 376-378.
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Sci-Chem
Sept 66

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The Bubble-Dispersion Layer Formed in the
Neighborhood of the Anode and Its Ohmic Drop,
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pp 378-381.
TC-1052

Sci-Chem
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Application of the Polarographic Method to the
Analysis of Synthetic Phosphors With a Note
On the Estimation of Palladium, by Shinichiro
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Flow in the Non Operated Cell, by Sugino Toshiyuki,
27 pp.

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AEC UCRL-Trans-515

Sci - Chem
Apr 60

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Investigation of the Contact and Duration
Measurement Apparatus and the Arc Duration of Silver
Contacts, by G. Matsumoto, S. Nohara, K. Mano.

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Shiba Bunkai, Oct 1958.

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TT-65-14158

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Hattori, S.
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MATERIALS. 178p (13 half-tone figs not reproducible)
59refs.

Order from SLA: \$12.50 as TT-65-14158

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Nagai, K., Mano, K., and Kitadate, F.
IMPROVEMENT OF ROTARY SWITCHES. [1961] 3p.
Order from ATS \$5.50 ATS-61N50J

Trans. of mono. Denki San-Gakkai Tokyo Shubu Rengo
Taikai (Joint Meeting of the Tokyo Branches of the
Three Electrical Societies) Oct 52, p. 47.

DESCRIPTORS: *Rotary switches, Design.

61-22382

- I. Nagai, K.
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- III. Kitadate, F.
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- V. Associated Technical
Service, Inc., East
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- VI. Title: Joint...

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(Engineering--Electrical, TT, v. 6, no. 6)

Carbon Potential in the Endothermic-Type Gas
Atmosphere, by M. Yasuda, S. Masumoto.
JAPANESE, per, Denki Seiko, Vol XXXIII, No 3,
1962, pp 117-128.
BISI 3507

Sci - Engr
Sep 64

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Bi-Axially Magnetic Steel Sheet, by T. Kato,
M. Fujikura.
JAPANESE, per, Denki Seiko, Vol 33, Mar 1962,
pp 141-154.
BISI 4620

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Sci - Mechanical, Industrial,
Civil, and Marine Engineering
Jan 67